

ABSTRACT

The present invention provides a hybridization detector (1a) and the like that are improved in the hybridization efficiency by arraying nucleotide probes in a stretched form, a sensor chip including the hybridization detector (1a) or the like, and a method of hybridization using these detectors or the chip. The hybridization detector (1a) and the like include a reaction region (R) for hybridization between the nucleotide probes (X) and target nucleotide sequences (Y) having a base sequence complementary to the nucleotide probes (X). The reaction region (R) has a configuration for stretching the nucleotide probes (X) by an electric field and immobilizing the nucleotide probes (X) on ends (E) of scanning electrodes (C) by dielectrophoresis.